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REPORT NO. 3

Cotton Fiber and Processing Test Results

CROP of

1976



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 September 24, 1976

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1976

Discussion of Test Results

The average Fibrograph 2.5% span length of medium staple cottons tested from the Southwest through September 17 is shorter than a year ago, according to the Cotton Division, Agricultural Marketing Service, USDA. Samples are slightly more uniform and the average mike is finer this year. Shirley Analyzer nonlint content and picker and card waste are both higher than a year ago. Yarns spun from these samples show slightly stronger skein strength. There are fewer yarn imperfections than last year. The average spinning potential number is slightly lower this year.

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These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.^{1/} These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

^{1/} Summary of Cotton Fiber and Processing Test Results, Crop of 1975,
USDA, AMS, Cotton Division, May 1976.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through September 17, 1976 ^{1/}

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality		Spin. Potent.		
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appear- ance		Imperf- actions	
				Pct.			Rdg.	Mpsi			G/tex		Pct.
		No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	22s	Carded	Yarn	Yarn No.
Medium Staple: Southwest	17	1.08	45	4.4	81	22	2.7	4.5	103	102	22	60	
	19	1.06	46	4.2	81	22	3.1	6.0	105	101	18	58	
Significant dif- ference <u>2/</u>		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3	

^{1/} Based on a limited number of samples of modal quality
^{2/} Minimum differences considered to be significant for comparisons in this table.

Production Area, Classification & Sample Number				Fiber Test Results						Processing Test Results - Carded Yarns									
No	Grade	Style	Digital Fibrograph	Mike	Fiber Strength	Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
Name & Code			2.5% span	In	Pct	Rdg	Mpsi	G/tex	Pct	Elon-gat'n 1/8"	Zero Gage	1/8" Gage	Pct	S.A. Non-Lint	Gra	Yel	No	No	No

SOUTHWEST AREA																				
SOUTH TEXAS																				
DANEVANG																				
41	35	1.13	47	4.1	80	23	7.3	3.6	1	3	6.1	114	39	6.4	5.0	100	80	18	14	70
										91 PERCENT										
ROBSTOWN																				
51	33	1.04	44	3.6	79	21	6.5	5.1	1	2	7.6	105	33	6.4	4.5	90	70	22	14	52
										95 PERCENT										
CENTRAL TEXAS																				
BATESVILLE																				
41	35	1.13	46	4.1	78	22	6.5	3.6	1	4	5.8	106	37	6.5	4.9	90	70	26	17	60
										90 PERCENT										

1/ Reduced from 41 because of bark